

e:PHEV 2024-

Battery state of health check (SOCE & Reset)

Recommended tool:

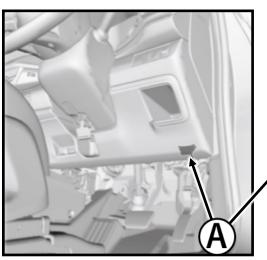
CAN Reader: Vector VN16xx or equivalent tool compliant with ISO 14229-1.

Note: ISO 14229-1 compliance is highly recommended for optimal performance.

Battery in vehicle:

Connect the CAN reader tool to OBD connector.

OBD connection location (A): (RHD shown, LHD is a mirror image)





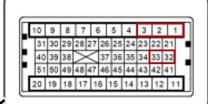
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

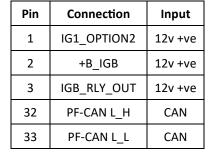
Pin	Connection
4	Ground / -ve
6	CAN H
14	CAN L
16	12v +ve

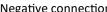
Battery without vehicle:

Connect the CAN reader tool to BMS connector (51 pin male).











© Honda Motor Europe Ltd	© Honda	Motor	Europe	Ltd.
--------------------------	---------	-------	--------	------

ID No.	Version No.	Page No.
ePHEVBMS_EN	002—Aug 24	1 of 2



e:PHEV 2024-

Method of reading SOCE:

- (1) Send ID:18DBEFF1x DLC:8 \[03 22 20 2A AA AA AA AA \] from VN1610 to BAT.
- ② Receive ID:18DAF101x DLC:8 10 = 62202A xx xx xx I from BAT to VN1610.
- ③ Send ID:18DA01F1x DLC:8 「30 00 00 AA AA AA AA AA AA ∫ from VN1610 to BAT.
- (4) Receive ID:18DAF101x DLC:8 [21 xx xx xx xx xx xx xx xx] from BAT to VN1610.

NOTE: The time between steps 1 and 3 is only 100 m/sec, so it is necessary to create the command in advance.

As shown in the following diagram, the stored data is transmitted in sequence, and the SOCE data can be identified as the last figure before 55 55 55 55, which indicates the end of the received data. In this example "FC" indicates SOCE in hexadecimal.



(5) Calculate the SOCE value in decimal using the following conversion formula.

 $SOCE \times 100/255$ example: $252(FCh) \times 100/255 = 98.82 \cdots [\%]$

Method of software reset:

- A: When using \$04
- (1) Send ID:18DBEFF1x DLC:8 [01 04 AA AA AA AA AA AA AA] from VN1610 to BAT.
- (2) Receive ID:18DAF101x DLC:8 [0144555555555555] from BAT to VN1610.

If the response for step 2 is received, the reset is completed.

- B: When using \$A4
- 1 Send ID:18DBEFF1xDLC:8 [02 A4 10 AA AA AA AA AA AA] from VN1610 to BAT.
- (2) Receive ID:18DAF101x DLC:8 [02 E4 20 55 55 55 55 55] from BAT to VN1610.

If the response for step ② is received, the reset is completed.

© Handa Matau Fumana I tal	ID No.	Version No.	Page No.
© Honda Motor Europe Ltd.	ePHEVBMS_EN	002—Aug 24	2 of 2